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APPLICATION NO	). F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/629,277		07/31/2000	Hiroyuki Miyoshi	9369-49(T37-124487M/TH)	4913	
570	7590	09/09/2003				
AKIN GUMP STRAUSS HAUER & FELD L.L.P.				EXAMINER		
2005 MAF		EET, SUITE 2200	BRAHAN, THOMAS J			
PHILADE	LPHIA, PA	19103-7013		ART UNIT PAPER NUMBER		
				3652		
				DATE MAILED: 09/09/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

## Interview Summary

Application No. 09/629,277 Applicant(s)

MIYOSHI et al

Examiner

Thomas J. Brahan

Art Unit

3652



	<u> </u>	TING TO THE TANK THE
All participants (applicant, applicant's representative, PTO	personnel):	$\mathcal{Y}$
(1) Thomas J. Brahan	(3) <u>Dennis Butler</u>	
(2) Martin G. Belisario	(4)	
Date of Interview Sep 5, 2003	-	,
Type: a) ☑ Telephonic b) ☐ Video Conference c) ☐ Personal [copy is given to 1) ☐ applicant	2) applicant's representative)	
Exhibit shown or demonstration conducted: d)	e) 🛛 No. If yes, brief description:	
Claim(s) discussed: 1 and proposed claim 7.		
Identification of prior art discussed:  None		
Substance of Interview including description of the general any other comments:  Amending the claims to recite that the ceilings of the shaft language, overcomes the art of record as previously applied overcomes its 112 rejection. If applicant files these in an action final would not be issued. The other 112 rejection.	it and the machine room lie in the same plane, o ed. Changing the limitation "radial web" to just RCE, not an amendment after final, it was agr	or similar "web" eed that a first
(A fuller description, if necessary, and a copy of the amen allowable, if available, must be attached. Also, where no available, a summary thereof must be attached.)  i) It is not necessary for applicant to provide a separate	copy of the amendments that would render the arate record of the substance of the interview (	e claims allowable is if box is checked).
Unless the paragraph above has been checked, THE FORM INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MF already been filed, APPLICANT IS GIVEN ONE MONTH FR SUBSTANCE OF THE INTERVIEW. See Summary of Reco	PEP section 713.04). If a reply to the last Offic OM THIS INTERVIEW DATE TO FILE A STATE	ce action has MENT OF THE
	PRI A	OMAS J. BRAHAN MARY EXAMINER ART UNIT 3652
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Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

TO: Examiner Thomas Brahan

From: Dennis Butler /51,519

RE: Interview for U.S. Patent Application No.

09/629,277

## U.S. Patent Application No. 09/629,277

7. (New) An elevator apparatus comprising:

a cage;

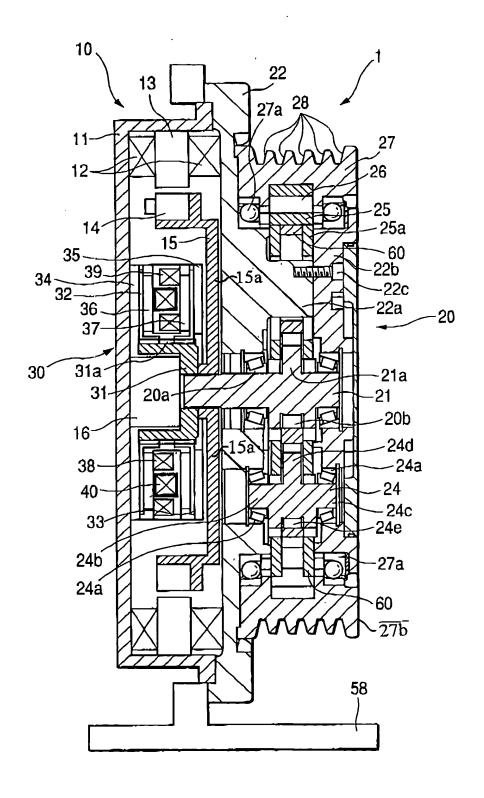
an elevator passage in which said cage is moved ascendingly and descendingly; a machine room adjacent to a top of said elevator passage;

an actuator device including a sheave around which a rope engaged with the cage is wound and a driving section for rotating said sheave having a drive assembly and a speed reducer, wherein said driving section having said speed-reducer is mounted in said machine room so that said sheave is projected into said elevator passage; and

a rotation surface of said sheave is generally perpendicular to an axis of rotation of said sheave and opposed to a side of said cage when said cage is positioned at said top of said elevator passage.

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FIG. 1



## MARKED-UP SPECIFICATION SECTION

The following is a Marked-Up Specification Section of the first full and second paragraph on page 5 of the original specification of U.S. Patent Application No. 09/629.277, wherein underlining indicates additions and strikethrough indicates deletions.

The motor assembly 10 has, in a housing 11 of the motor assembly 10, a coil 12, a stator 13 disposed adjacent to the coil 12, a rotor 14, a rotary disc 15 fixed to the rotor 14 and having its center part splinedly connected to the input shaft 21 to rotate therewith, and a An encoder 16 for detecting detects a number of the rotation rotations of the input shaft 21. The housing 11 is fixed to a support member 22 of the speed-reducer 20. The rotary disc 15 includes a radial web 15a that extends radially from the input shaft 21 and is positioned in facing relationship to a side of the support member 22 facing the motor assembly 10. The support member 22 is attached to a floor face of a machine room 58 of a building 50 which will be described later. The motor assembly 10 is so constructed that an electrical supply to the coil 12 is controlled by a control section which is not shown, whereby a determined amount of torque is outputted.

As shown in Fig. 1, the speed-reducer 20 includes the input shaft 21 which is rotatably supported by means of a bearing 20a at a center part of the support member 22 (a rotation center of the speed-reducer). As sheave 27 is attached to the speed-reducer 20 as an output rotary wheel which is rotatably supported by means of a pair of bearings 27a at an outer circumference of the support member 227. The sheave 27 is provided with grooves 28 on an outer periphery thereof to be wound by a rope 29 (Fig. 2), and is provided with a predetermined number of internal teeth at an inner periphery thereof. A plurality of external teethed gears 60 which are engaged at their inner circumferences with a crank portion 21a of the input shaft 21 by means of bearings 20b, and each of which has a predetermined number of teeth on its outer circumference, and a. A plurality of support shafts 24 which are supported by the support member 22 at their opposite ends 24b, 24c by means of bearings 24a, and support a plurality of the external teethed gears 60 by means of bearings 24e at their crank portions 24d.

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